

What is the product?

$$
\begin{array}{r}
\frac{3 x+4}{3 x-9} \cdot \frac{\left(x^{2}+5 x-24\right)}{1} \\
\frac{3 x+4}{3(x-5)} \cdot \frac{(x-3)(x+8)}{1} \\
\frac{(3 x+4)(x+8)}{3}
\end{array}
$$

What is the quotient?

$$
\begin{gathered}
\frac{1}{\frac{q+4}{\frac{2 q^{2}}{2 q+8}}} \frac{1}{q+4} \div \frac{2 q^{2}}{2 q+8}=\frac{1}{q+1^{1}} \cdot \frac{2(i q+4)}{2 q^{2}} \\
\frac{1}{q^{2}}
\end{gathered}
$$

Simplify. State the excluded values.

$$
\begin{aligned}
& \frac{x^{2}-9}{-x^{2}+2 x+3} \\
& \frac{(x-3)(x+3)}{-1\left(x^{2}-2 x-3\right)}=\frac{(x-3)(x+3)}{-1(x-3)(x+1)} \\
& \frac{(x+3)}{-1(x+1)}
\end{aligned}
$$

Your friend runs for ( $x^{2}-225$ ) seconds at multiply meters per second. How far does your friend run?

$$
\begin{aligned}
& \left(x^{2}-225\right) \cdot \frac{1}{2 x-30} \\
& \frac{(x-15)(x+15)}{1} \cdot \frac{1}{2(x-15)} \\
& \frac{x+15}{2} m
\end{aligned}
$$

What is the solution of each equation? Check your solution.

$$
\begin{aligned}
& 10 x\left(\frac{2}{5 x} \cdot \frac{1}{2 x}=-\frac{1}{2}\right) \\
& \frac{20 x}{5 x}-\frac{10 x}{2 x}=\frac{-10 x}{2} \\
& 4-5=-5 x \\
& \frac{-1}{-5}=-\frac{5 x}{-5} \quad x=1 / 5
\end{aligned}
$$

What is the solution?

$$
\begin{gathered}
\frac{x-3}{x+1}-\frac{1}{x+1} \quad \frac{\mid(x-i)}{x+1}=\frac{(x-3)(x+i)}{x+1} \\
1=x-3 \\
x=4
\end{gathered}
$$

$$
\begin{gathered}
250\left(\frac{x}{60}+\frac{x}{42}=1\right) \\
\frac{2520}{60}+\frac{2520 x}{42}=2520 \\
42 x+60 x=2520 \\
102 x=2520 \\
x=24.7 \mathrm{~min}
\end{gathered}
$$

Ch 11 Review Homework:
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Quiz MONDAY

